CIO View Special

10 themes for the year ahead

October 13, 2025 Marketing material



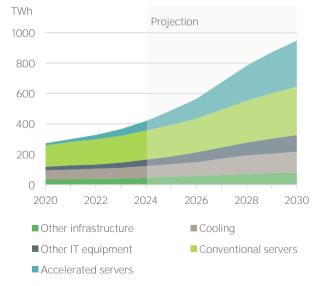
Digitalization meets sustainability

Our digital future is going to need a lot more energy than people think

Technological progress is advancing rapidly, particularly in the fields of artificial intelligence (AI) and cryptocurrencies. Generative models, real-time analytics and blockchain applications are transforming the economy and society. But this digital transformation has an often-overlooked side effect: the significant increase in global electricity demand. The infrastructure supporting AI and cryptocurrencies, such as data centers, storage solutions and specialized chips, is becoming one of the world's largest energy consumers.

Data centers and crypto mining farms operate 24/7 to perform complex calculations and process transactions. The demands placed on cooling, security, and grid stability have been rising. This puts increasing pressure on power grids, which not only have to cope with continuous loads, but also have to respond flexibly to peaks. Meanwhile, the strategic importance of hardware suppliers is growing, particularly those providing security solutions for critical infrastructure, such as nuclear power plants and turbines. The availability of critical raw materials is becoming a geopolitical factor that may influence investment decisions.

Global data center electricity consumption



Source: International Energy Agency as of April 2025

It is not just the digital world, however, that is increasing demand for energy. Electrification is also being shaped by the fact that generation and consumption are becoming modular and mobile. Electric vehicles, intelligent supply chains and automated production processes are just a few examples of this transformation. Germany is playing a pioneering role in technology and regulation. The ecological footprint of this development is complex. In addition to CO2 emissions, factors such as water consumption for cooling and land use play a central role. Economic imperatives and political guidelines are behind the transformation, but social and environmental responsibility are also central to it. Sustainability has become an integral part of corporate planning globally and is also influencing how the electrification transformation is executed.

Innovations are needed to meet rising energy demand. Key solutions include renewable energies, liquid cooling and energy-efficient chip designs. Power supply chips and new grid technologies are helping to shape electricity distribution and usage. Regulatory frameworks and ESG-driven investment strategies are becoming increasingly important, particularly for the security of critical infrastructure and sustainable resource use. Scalability and long-term supply security are also coming increasingly into focus.

"Europe, and Germany in particular, appear well positioned in this transformation," says Olivier Souliac, Head Indexing at Xtrackers Products at DWS. "Large infrastructure programs and incentives for technological innovation are helping to lay the foundations for sustainable Al infrastructure, smart supply systems and the mobility of the future."

The race against time already began quite some time ago. Whether AI, cryptocurrencies and the electrification of the economy can be made transformative and sustainable is of central importance to the future viability of our society. In business and in politics, smart strategies, bold investments and an awareness of the hidden costs of progress remain critically important.

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Glossary

Artificial intelligence is the theory and development of computer systems able to perform tasks normally requiring human intelligence.

A blockchain is a chain of blocks of data that are immutably chained together via cryptography and stored on a distributed and decentralized database.

A crypto asset is the digital representation of a value or contractual right that is created, transferred, and stored using distributed ledger technology (blockchain) and authenticated through cryptography.

Investors increasingly take environmental, social and governance (ESG) criteria into account when analyzing companies in order to identify non-financial risks and opportunities.

A generative model is a machine learning model designed to create new data that is similar to its training data.

Mining is the process of creating valid new blocks containing transactions for proof-of-work based blockchains. To link a new block to the last one, a complex mathematical problem must be solved.

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as of 10/6/25; 107676_1 (10/2025)

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Cryptocurrencies and blockchain (the technology that supports crypto) have distinct risks that can include: the physical custody of cryptocurrency (theft, loss or destruction of key(s) to access the blockchain), lack of regulation, cybersecurity incidents, new and untested technology and its reliance on the Internet.

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as of 10/6/25; 107677_1 (10/2025)